International application No. PCT/AU2004/001057

A.	CLASSIFICATION OF SUBJECT MATTER			
Int. Cl. 7:	G01N 33/68			
According to 1	nternational Patent Classification (IPC) or to bot	h national classification and IPC		
	FIELDS SEARCHED	•		
See "electron	mentation searched (classification system followed by nic data base" box below			
	searched other than minimum documentation to the entire data base" box below	stent that such documents are included in the fields search	ned	
MEDLINE,	base consulted during the international search (name of CAPLUS, WPIDS: glut, glut1, glut4, traffic meabilis?, rupture?, assay, process, method,	of data base and, where practicable, search terms used) ?, translocat?, tag, marker, ligand, bind, bound, level	receptor, lys?,	
C.	DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where a	oppropriate, of the relevant passages	Relevant to claim No.	
A	US 6 303 373 B1 (BOGAN et al.) 16 Octo Whole specification		1(in part), 2- 62	
P,A	US 6 632 924 B2 (BOGAN et al.) 14 Octo Whole specification	·	1(in part), 2- 62	
A	US 5 989 893 A (CZECH et al.) 23 Novem Whole specification	nber 1999	1(in part), 2- 62	
SLOT, J.W. et al., "Translocation of the glucose transporter GLUT4 in cardiac myocytes of the rate", Proc. Natl. Acad. Sci. USA, September 1991, Vol. 88, pages 7815-7819 Whole article				
F	urther documents are listed in the continuati	on of Box C X See patent family ann	ex	
"A" documer	categories of cited documents: at defining the general state of the art which is idered to be of particular relevance	later document published after the international filing date or p conflict with the application but cited to understand the princip underlying the invention	riority date and not in le or theory	
	opplication or patent but published on or after the "X" onal filing date	document of particular relevance; the claimed invention cannot or cannot be considered to involve an inventive step when the	be considered novel document is taken	
or which	nt which may throw doubts on priority claim(s) "Y" is cited to establish the publication date of citation or other special reason (as specified)	alone document of particular relevance; the claimed invention cannot involve an inventive step when the document is combined with such documents, such combination being obvious to a person s	one or more other	
or other		document member of the same patent family		
but later	nt published prior to the international filing date than the priority date claimed			
1	nal completion of the international search	Date of mailing of the international search report 2 1 FEB 2005	•	
7 February 2 Name and mail	ing address of the ISA/AU	Authorized officer		
PO BOX 200,	I PATENT OFFICE WODEN ACT 2606, AUSTRALIA pct@ipaustralia.gov.au	JAMIE TURNER		
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	PC1/AU200	4/00105/
C (Continuation	on). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	HANEY, P.M., "Intracellular Targetting of the Insulin-regulatable Glucose Transporte (GLUT4) Is Isoform Specific and Independent of Cell Type", The Journal of Cell Biology, August 1991, Vol. 114, No. 4, pages 689-699 Whole article	1(in part), 2- 62
-	WANG et al., "GLUT4 Translocation by Insulin in Intact Muscle Cells: Detection by a fast and Quantitative Assay", FEBS Letters, 1998, Vol. 427, pages 193-197	
x	See especially paragraph 3.4 at page 195	1(in part), 2- 62
	·	

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Box No. II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This internate reasons:	tional search report has not been established in respect of certain claims under Article 17(2)(a) for the following
1.	Claims Nos.:
	because they relate to subject matter not required to be searched by this Authority, namely:
2. X	Claims Nos.: 1
	because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
	Claim 1 is not limited to the technical features of the invention described in the international application. Clearly, there is support only for the determination of membrane transport proteins which are glucose transport (GLUT) proteins, notably GLUT1 and GLUT4. Because claim 1 is not limited to the detection of GLUT proteins it is not considered limited to the technical features of the invention.
3.	Claims Nos.:
	because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)
Box No. III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This Interna	tional Searching Authority found multiple inventions in this international application, as follows:
	·
1.	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
	·
	·
	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on	Protest The additional search fees were accompanied by the applicant's protest.
	The additional source roos were approximate by the approximate present
·	No protest accompanied the payment of additional search fees.

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Supplemental Box

(To be used when the space in any of Boxes I to VIII is not sufficient)

Continuation of Box No:

It should be noted that an amended page 108, containing amendments to claims 53 and 54, was filed 5 October 2004 with the International Bureau. Unfortunately, because these amendments were not filed in the time frame referred to in Article 19 and Rule 46.1, these amendments cannot be considered under Art. 19. However, it should be noted that the subject matter of claims 53-54 (as if they were amended) was nevertheless the subject of the International Search Report. Further, it is apparent that the amendments to these pages do not go beyond the disclosure of the international application as filed.

Information on patent family members

International application No. PCT/AU2004/001057

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

	t Document Cited in Search Report	•		Pate	ent Family Member		٠
US	6303373	AU	54775/00	EP	1189943	US	6632924
		US	2002052012	US	2002155479	wo	0075188
•		wo	02059299				
US	5989893	AU	78448/94	EP	0721508	wo	9509240

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX